

opic progress: 0% in alization? Explain with examples	
11. Describe the concept of denormalization and when you would use it.	Question
12. What are indexes and how can they improve query performance?	Question
13. Explain the purpose of the GROUP BY clause.	Question
14. What is a subquery , and when would you use one?	Question
15. Describe the functions of the ORDER BY clause.	Question
16. What are aggregate functions in SQL?	Question Question
17. Explain the differences between INNER JOIN, LEFT JOIN, RIGHT JOIN, and FULL JOIN.	Question Question
18. How do you insert a new row into a database table?	Question Question
19. Explain how to update records in a database table.	Question Question
20. What is a SQL View and what are its advantages?	Question Question
SQL Data Types and Operators	
21. List the different data types available in SQL.	Question Question
22. What are the differences between CHAR, VARCHAR, and TEXT data types?	Question Question
23. How do you use the BETWEEN operator in SQL?	Question Question
24. Describe the use of the IN operator.	© Question
25. Explain the use of wildcard characters in SQL.	(3) Question
26. What is the purpose of the LIKE operator?	Question Question
27. How do you handle NULL values in SQL?	Question Question
28. What does the COALESCE function do?	Question Question
29. What is the difference between UNION and UNION ALL?	Question Question
30. Describe the use of arithmetic operators in SQL queries.	Question Question
SQL Advanced Queries ————————————————————————————————————	
31. Explain how to use the CASE statement in SQL.	Question Question
32. How would you perform a self JOIN ?	Question Question
33. What is a cross JOIN and when would you use it?	Question Question
34. How to implement pagination in SQL queries?	Question Question
35. Explain the concept of Common Table Expressions (CTEs) and recursive CTEs.	Question Question
36. What are window functions and how are they used?	(3) Question
37. How can you concatenate column values in SQL?	(3) Question
38. What is the PIVOT operation and how would you apply it?	(3) Question
39. Explain the process of combining a query that uses a GROUP BY with one that uses ORDER BY .	Question Question
40. How would you find duplicate records in a table?	Question Question
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41. What is the Entity-Relationship Model?	Question Question
42. Explain the different types of database schema.	Question Question
43. What are Stored Procedures and how are they beneficial?	Question Question
44. What is a trigger in SQL and when should it be used?	Question Question
45. Describe the concept of ACID in databases.	Question Question

Go up

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47. How do database indexes work and what types are there?	Question Question
48. Describe the process of data warehousing.	Question Question
49. Explain the difference between OLTP and OLAP systems.	Question Question
50. What are materialized views and how do they differ from standard views?	Question Question
SQL Optimization and Performance	
51. How do you identify and optimize slow-running queries?	Question Question
52. What is query execution plan in SQL?	Question Question
53. Explain how to use EXPLAIN or EXPLAIN ANALYZE.	Question Question
54. How can indexing affect performance both positively and negatively?	Question Question
55. Describe how to measure the performance of SQL queries.	Question Question
56. How would you rewrite a query to improve its performance?	Question Question
57. What are partitioned tables and how can they optimize performance?	Question Question
SQL Security —	
58. How do you implement database encryption in SQL?	Question Question
59. What are roles and how do they manage database access?	Question Question
60. Explain the concept of row-level security.	Question Question
61. Describe how to create and use user-defined functions (UDFs).	Question Question
SQL Functions and Expressions	
62. Describe scalar-valued and table-valued functions.	Question
63. How would you define a stored procedure with input and output parameters?	Question Question
64. What is the difference between a function and a stored procedure?	Question
65. How do you use the CAST and CONVERT functions?	Question Question
Transaction Control and Locking	
66. What is a database transaction?	Question Question
67. Explain the concept of locking and its types in SQL databases.	Question Question
68. What are the properties of transactions?	Question Question
69. How do you manage transaction isolation levels?	Question Question
70. What does it mean to commit or roll back a transaction?	Question Question
SQL and Modern Data Ecosystems	
71. How can SQL be integrated with big data technologies?	Question Question
72. Discuss the interoperability of SQL with cloud-based data stores .	Question Question
73. What is Data Lake and how can SQL interact with it?	Question Question
74. Explain the interaction between SQL and NoSQL within the same application.	Question Question
75. How does SQL work within a microservices architecture?	Question Question
SQL Best Practices and Standards —	
76. What are some common SQL coding practices you follow?	Question Question
77. How can you ensure the portability of SQL scripts across different database systems?	Question

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80. How do you document SQL code effectively? Analytical SQL Questions 81. How would you find the Nth highest salary from a table? 82. How do you count the number of occurrences of a specific value in a column? 83. How can you calculate running totals in SQL? 84. Explain how to reverse the contents of a column without using a reverse function. 85. What approach do you use for creating a calendar table, and what are its uses? Data Manipulation and ETL 86. What is the process of Extract, Transform, Load (ETL)? 87. How do you import/export data from/to a flat file using SQL? 88. Explain the steps for a basic ETL process in a data warehousing environment. 89. How do you use for automating data import/export routines? Domain-Specific SQL Scenarios 90. What tools do you use for automating data import/export routines? Domain-Specific SQL Scenarios 91. How would you model a many-to-many relationship in SQL? 92. Describe how to manage hierarchical data in SQL. 93. How would you approach writing SQL queries for a reporting application? 94. Explain how to handle temporal data and time zones in SQL. 95. How do you use SQL in financial applications for risk and portfolio analysis? Troubleshooting and Debugging 96. What steps do you take to troubleshoot a failed SQL query? 97. How can you recover data from a corrupt SQL database? 98. What methods do you employ to ensure data integrity? 98. What methods do you employ to ensure data integrity?	opic progress: 0% (en you use for version controlling SQL scripts?	Question Question
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